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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,379	12/03/2003	Noriyuki Kodama	NEKU 20.776 (100806-00242)	6385
26304 7590 05/11/2007 KATTEN MUCHIN ROSENMAN LLP 575 MADISON AVENUE NEW YORK, NY 10022-2585			EXAMINER PHAM, LONG	
			ART UNIT 2814	PAPER NUMBER
			MAIL DATE 05/11/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/728,379	KODAMA ET AL.	
	Examiner	Art Unit	
	Long Pham	2814	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 February 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 32,33 and 54-68 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) 32,33,57 and 59-64 is/are allowed.
- 6) ☒ Claim(s) 54-56,58 and 68 is/are rejected.
- 7) ☒ Claim(s) 65-67 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Rejections and/or objections as previously applied

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 54, 55, 56, and 58 are rejected under 35 U.S.C. 102(a) as being anticipated by the applicant's admitted prior art (AAPA) of this application.

With respect to claim 54, AAPA teaches an ESD protection circuit comprising of (see figs. 1 and 2 and associated text of this application):

A first bipolar transistor 12 and a second bipolar transistor 11,

A trigger device (anode 4 of SCR and cathode 9 of SCR) adapted to trigger said first and second bipolar transistors.

one end 4 of said trigger device is connected to a base region of said first bipolar transistor 12 (since 4 is connected to the bipolar transistor 12, it is indirectly connected to the base).

another end 9 of said trigger device is connected to a base region of said second bipolar transistor 11 (since 9 is connected to the bipolar transistor 11, it is indirectly connected to the base);

Further with respect to claim 54, since AAPA teaches the claimed first and second bipolar transistors, they are capable of performing the intended use of functioning as a SCR.

Further with respect to claim 54, how the trigger device is adapted to the first and second bipolar transistors has not been given patentable weight because claims are directed to a device.

With respect to claim 55, AAPA further teaches a first resistive element (resistor under "5" in fig. 5), wherein said one end 4 of said trigger device is connected to the first bipolar transistor 12 or base of the first bipolar transistor via the first resistive element. See fig. 2 and associated text.

With respect to claim 56, AAPA further teaches a second resistance element or ground, wherein said another end 9 of said trigger device is connected to a ground or said second resistance element. See fig. 2 and associated text.

With respect to claim 58, AAPA further teaches the anode 4 of the SCR is connected to a pad via "5" and the cathode 9 of the SCR is connected to a ground. See fig. 2 and page 4, lines 1-10.

Claim 68 is rejected under 35 U.S.C. 102(a) as being anticipated by the applicant's admitted prior art (AAPA) of this application.

With respect to claim 68, AAPA teaches an ESD protection circuit comprising of (see figs. 1 and 2 and associated text of this application):

A first bipolar transistor 12 and a second bipolar transistor 11,

A trigger device (anode 4 of SCR and cathode 9 of SCR) adapted to trigger said first and second bipolar transistors.

one end 4 of said trigger device is connected to a base region of said first bipolar transistor 12 (since 4 is connected to the bipolar transistor 12, it is indirectly connected to the base).

another end 9 of said trigger device is connected to a base region of said second bipolar transistor 11 (since 9 is connected to the bipolar transistor 11, it is indirectly connected to the base);

Further with respect to claim 68, since AAPA teaches the claimed first and second bipolar transistors, they are capable of performing the intended use of functioning as a SCR.

Allowable Subject Matter

Claims 32-33, 57, 59-64 are allowed.

Claims 65, 66, and 67 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed 02/20/07 have been fully considered but they are not persuasive. See below.

In response to the applicant's arguments in the first paragraph on page 10 of the amendment dated 02/20/07, it is submitted that the trigger device (anode 4 of SCR and cathode 9 of SCR) adapted to trigger said first and second bipolar transistors. See page 5 of this application.

In response to the applicant's arguments in the second and third paragraphs on page 10 of the amendment dated 02/20/07, it is submitted that AAPA teaches adapting the trigger device to the first and second bipolar transistors. Further, it is submitted that how the trigger device adapted to the first and second bipolar transistors, that is simultaneously, sequentially, or otherwise would not change the resulting structure of the trigger device adapted to the first and second bipolar transistors.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory

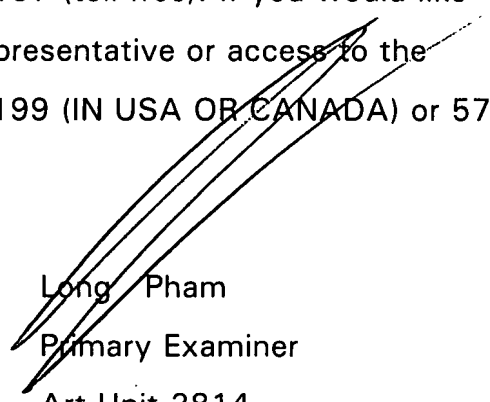
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action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long Pham whose telephone number is 571-272-1714. The examiner can normally be reached on Mon-Frid, 10am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Long Pham
Primary Examiner
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